

ABSTRACT

2 The present invention provides a slab type gas laser for generating an excellent output laser beam
3 having substantially Gaussian intensity distribution when it is focused by the lens. For this end, a pair of
4 cylindrical electrodes 11, 12 of different diameter are disposed concentrically by way of spacers 13 and
5 laser medium is filled in the gap between the two cylindrical electrodes 11, 12 to define a straight slab 1.
6 Disposed at one end of the straight slab 1 is a ring-shaped trick mirror M1. Also disposed at the center of
7 the one end of the straight slab 1 is an output mirror M2 to pass a part of the light and to reflect a part of
8 the remaining light. On the other hand, disposed at the other end of the straight slab 1 is a w-axicon
9 mirror M3. The relationship between the center offset Xm and the center position X0 of the trick mirror is
10 set to $Xm \leq 1.1 X0$.

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